

# ANTONIO MARANGI

## Mechatronics engineer

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## EDUCATION

### BSc in Mechanical Engineering

#### Polytechnic of Turin

📅 September 2014-September 2017    📍 Turin

Thesis: Mechanical characterization of Biochar-Epoxy composites

Mark: 110/110

### Double MSc in Mechatronics and Automation Engineering

#### Polytechnic of Milan/Turin

📅 September 2017 - December 2019    📍 Turin

Thesis: **Simultaneous Localization and Mapping for an autonomous robot**

Thesis: **Fly-by-Sensor system for Photovoltaic energy plant monitoring**

Mark: 110/100 cum laude

### Master in Business Administration

#### Collège des Ingénieurs

📅 September 2020- July 2021    📍 Turin/Paris/Munich

The MBA program included a work program in a company, Capgemini. During my mission in Capgemini I have been working as PMO. This experience showed me all the managerial work behind a technical project and taught me how to autonomously manage a technical team and a client.

## WORK EXPERIENCES

### Automotive test Engineer at Reply S.P.A

📅 January 2020-August 2020    📍 FCA, Turin, Italy

As a test engineer at FCA I have worked on the infotainment system of many cars and, in particular, on all their IoT based functionalities. This experience not only taught me how the automotive industry works but also how to design and write high-quality easily testable code.

### Robotics Engineer at Innotech-sys

📅 February 2019 - October 2020    📍 Los Angeles

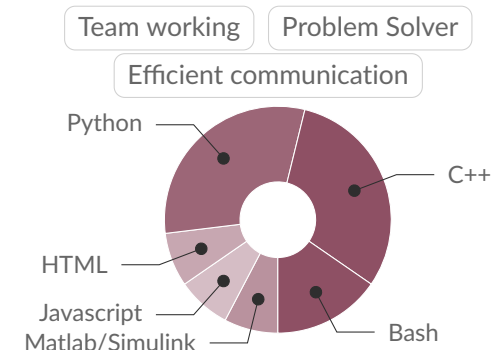
I have been part of Innotech-sys start up almost from the beginning of its story. I contributed to design, develop and build the first prototype of a fully autonomous robot. This experience introduced me to ROS and autonomous navigation systems.

### Robotics Engineer at Alba-robot

📅 July 2021 - Ongoing    📍 Turin

At Alba-robot I had the chance to deeply experience with ROS, autonomous driving software and sensors. As a Robotics Engineer I have been working full stack with a personal autonomous vehicle.

## PERSONAL COMPETENCIES



### Proper use of:

OS: Linux

SW: Git, ROS/ROS2, Gazebo

Other: CAN bus

Available to relocate worldwide

## LANGUAGES

English (Advanced)    Spanish  
Italian (Mother tongue)

## INTERNATIONAL EXPERIENCES

### International mobility program UE

#### Spain, Basque Country

📅 September 2016- February 2017

### Thesis Abroad program USA

#### California State University of Los Angeles

📅 February 2019- August 2019

## PUBLICATIONS

(1) A. Marangi, K. Olia, F. Daneshgaran, N. Bruno, F. Lizzio and M. Mondin (2019)  
"Simultaneous Localization and Mapping with Application to Monitoring of Underground Transportation Infrastructure"  
In IEEE - ISAECT 2019 TPC

(2) F. Daneshgaran, A. Marangi, N. Bruno, F. Lizzio, M. Mondin, K. Olia (2020)  
"Visual Simultaneous Localization and Mapping with Applications to Monitoring of Underground Transportation Infrastructure"  
In TRB: Sage Journal